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Chujo, Michitaka

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TENEBRIONIDAE OF THE NANSEI ISLANDS V (COLEOPTERA)*

MICHITAKA CHÛJÔ

Hikosan Biological Laboratory, Faculty of Agriculture
Kyushu University, Hikosan, Fukuoka 824-07, Japan

Abstract

Eight species of the Tenebrionidae are newly recorded from Kumejima I., 15 from Miyakojima I., 8 from Kurimajima I., 1 from Irabujima I., 2 from Taramajima I., 1 from Taketomijima I., 13 from Iriomotejima I., 20 from Yonagunijima I., 1 from Kuroshima I., 4 from Haterumajima I.. 2 from Kita-daitojima I., and 1 from Kohbisho I. Five new taxa are *Setenis iriomotensis* sp. nov., *Cryphaeus satoi iriomotensis* subsp. nov. and *Plesiophthalmus gracilis* sp. nov. from Iriomotejima I., *Plesiophthalmus punctatus* sp. nov. from Yonagunijima I., and *Strongylium costatum* sp. nov. from Uotsurijima I.

KUMEJIMA I.

OPATRINI

†1. **Gonocephalum moluccanum** (Blanchard, 1853)
Spec. exam. : 1 ex. (at light), Okidomari, Kumejima I., Ryukyus, Japan, 30. vi. 1977, H. Makihara leg.

†2. **Gonocephalum okinawanum** M. T. Chûjô, 1962
Spec. exam. : 1 ex., Nakadomari, Kumejima Is., 9. v. 1978, T. Tsutsumi leg.

BOLITOPHAGINI

†3. **Dicraeosis carinatus carinatus** Gebien, 1913
Spec. exam.: 5 exs., Kumejima I., Ryukyus, 2. vii. 1977, H. Makihara leg.; 1 ex., Kumejima I., Ryukyus, Japan, 3. vii. 1977, H. Makihara leg.

DIAPERINI

†4. **Platydema subfascia subfascia** (Walker, 1858)
Spec. exam.: 4 exs., Kumejima, Ryukyus, Japan, 2. vii. 1977, H. Makihara leg.

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* Contribution from the Hikosan Biological Laboratory, Faculty of Agriculture, Kyushu University, Hikosan (Ser. 2, No. 41).

† The dagger shows that the species has hitherto been unrecorded from the island.

CNODALONIN I

†5. **Gnesis helopioides okinawanus** (Nakane, 1968)
Spec. exam. : **4 exs.,** Ohyama, Kumejima I., Ryukyus, Japan, 1. vii. 1977, H. Makihara leg. ; ***1 ex.,*** Kumejima I., Ryukyus, Japan, 2. vii. 1977, H. Makihara leg.

†6. **Obriomaia palpalis palpaloides** Nakane, 1963
Spec. exam.: 1 ex., Kumejima I., Ryukyus, Japan, 2. vii. 1977, H. Makihara leg.

†7. **Pseudonautes purpurivittatus** (Marseul, 1876)
Spec. exam. : 1 ex., Ohyama, Kumejima I., Ryukyus, Japan, 1. vii. 1977, H. Makihara leg.

STRONGYLIINI

†8. **Strongylium cultellatum** Mäklin, 1866
Spec. exam. : 1 ex., Ohyama, Kumejima I., Ryukyus, Japan, 1. vii. 1977, H. Makihara leg.

MIYAKOJIMA I.

OPATRINI

†1. **Gonocephalum coenosum** Kaszab, 1952
Spec. exam. : 1 ex., Miyako-jima, 7. iv. 1966, T. Okadome leg. ; 2 exs., Hirara Bot. Garden, Miyako I., Ryukyus, 19. iv. 1969, M. Chûjô leg. ; 30 exs., Hirara Bot. Garden, Miyako I., Ryukyus, 20. iv. 1969, M. Chûjô leg. ; 1 ex., Hirara, Miyako I., Ryukyus, 28. iii. 1971, H. Makihara leg. ; 7 exs., Gusukube (Tomori), Miyako I., 21. iv. 1974, Col. H. Irie.

TRACHYSCELINI

†2. **Trachyscelis chinensis** Champion, 1894
Spec. exam.: 1 ex., Maehama, Miyakojima, Ryukyus, Japan, 5. vii. 1977, H. Makihara leg.

PHALERIINI

†3. **Phaleria (Epiphaleria) atriceps** (Lewis, 1894)
Spec. exam. : ***9 exs.,*** Maehama, Miyakojima, Ryukyus, Japan, 5. vii. 1977, H. Makihara leg.

BOLITOPHAGINI

†4. Dicraeosis carinatus carinatus Gebien, 1913
Spec. exam.: 2 exs., Hirara, Miyakojima, 13. vii. 1968, H. Makihara leg. ; 2 exs., Hirara, Miyakojima, 27. viii. 1968, H. Makihara leg. ; 2 exs., Hirara, Miyakojima, Ryukyu Is., 17-23. viii. 1969, H. Makihara leg. ; **1 ex.,** Hirara,

Miyako I., Ryukyus, 1. vi. 1973, H. Makihara leg.; 2 exs., Botanical Garden, Hirara, Miyako I., Ryukyus, 24. vi. 1974, H. Makihara leg. ; 1 ex., Botanical Garden, Hirara, Miyako I., Ryukyus, 25. v. 1974, H. Makihara leg.; 1 ex., Uinpiya, Miyako I., Ryukyus, 28. vi. 1974, H. Makihara leg. ; 3 exs., Uinpiya, Miyako I., Ryukyus, 29. vi. 1974, H. Makihara leg. ; 1 ex. (at light), Uinpiya, Miyako I., Ryukyus, 29. vi. 1974, H. Makihara leg.

i-5. **Bradymerus clathratus** Schaufuss, 1887
Spec. exam. : 1 ex., Botanical Garden, Hirara, Miyako I., Ryukyus, 31. v. 1975, H. Makihara leg.

DIAPERINI

†6. **Diaperis lewisi intersecta** Gebien, 1913
Spec. exam. : 13 exs., Uinpiya, Miyakojima, Ryukyus, Japan, 6. vii. 1977, H. Makihara leg.

†7. **Platydema marseuli** Lewis, 1894
Spec. exam. : 3 exs., Botanical Garden, Hirara, Miyako I., Ryukyus, 25. v. 1974, H. Makihara leg.; 4 exs., Uinpiya, Miyako I., Ryukyus, 29. vi. 1974, H. Makihara leg. ; 6 exs., Uinpiya, Miyako I., Ryukyus, 30. v. 1975, H. Makihara leg. ; 1 ex., Uinpiya, Miyako I., Ryukyus, 31. v. 1975, H. Makihara leg.

†8. **Platydema subfascia subfascia** (Walker, 1858)
Spec. exam. : 1 ex., Bora, Miyako I., Ryukyus, 23. v. 1974, H. Makihara leg. ; 1 ex., Uinpiya, Miyako I., Ryukyus, 30. v. 1975, H. Makihara leg. ; 34 exs., Uinpiya, Miyakojima, Ryukyus, Japan, 6. vii, 1977, H. Makihara leg.

ULOMINI

†9. **Alphitobius diaperinus** (Panzer, 1797)
Spec. exam.: 2 exs., Hirara, Miyako, Ryukyu Is., 17-23. viii. 1969, H. Makihara leg.

†10. **Hypophloeus (Paraphloeus) amamiensis** Kaszab, 1964
Spec. exam. : 1 ex., Hirara, Miyako, Ryukyu Is., 17–23. viii. 1969, H. Makihara leg.

CNODALONINI

†11. **Tetraphyllus amamiensis** Kaszab, 1964
Spec. exam. : 1 ex., Uinpiya, Miyako I., Ryukyus, 29. vi. 1974, H. Makihara leg.

†12. Hemicera sakishimensis M. T. Chûjô, 1968
Spec. exam. (additional specimens to the original description) : 5 exs., Hirara, Miyakojima, 27. viii. 1968, H. Makihara leg. ; 1 ex., Hirara, Miyakojima, 28. viii. 1968, H. Makihara leg.; 2 exs., Uinpiya, Miyakojima, Ryukyus, Japan, 6. vii. 1977, H. Makihara leg.

†13. **Gnesis magnipunctatus** (M. T. Chûjô, 1966)
Spec. exam. : 1 ex.(paratype), Hirara, Miyako I., 23. x. 1952, G. E. Bohart leg.

†14. **Obriomaia palpalis palpaloides** Nakane, 1963
Spec. exam. : 1 ex., Uinpiya, Miyako I., Ryukyus, 28. vi. 1974, H. Makihara leg.; 2 exs., Uinpiya, Miyako I., Ryukyus, 30. v. 1975, H. Makihara leg. ; 1 ex., Uinpiya, Miyako I., Ryukyus, 31. v. 1975, H. Makihara leg. ; 1 ex., Botanical Garden, Hirara, Miyako I., Ryukyus, 31. v. 1975, H. Makihara leg. ; 1 ex., Botanical Garden, Miyakojima, Ryukyus, Japan, 3. vii. 1977, H. Makihara leg.

†15. **Pseudonautes purpurivittatus** (Marseul, 1876)
Spec. exam. : 2 exs., Uinpiya, Miyako I., Ryukyus, 29. vi. 1974, H. Makihara leg.

†16. **Campsiomorpha imperialis** (Fairmaire, 1903)
Spec. exam, : 1 ex., Botanical Garden, Hirara, Miyako I., Ryukyus, 28. v. 1974, H. Makihara leg.

AMARYGMINI

†17. **Elixota iridicollis** Nakane, 1968
Spec. exam. : 1 ex.(light trap), Uinpiya, Miyako I., Ryukyus, 29. vi. 1974, H. Makihara leg.

KURIMAJIMA I.

PEDININI

†1. **Diphyrrhinchus shibatai Kaszab, 1963**
Spec. exam.: 16 exs., Kurimajima, Ryukyus, Japan, 5. vii. 1977, H. Makihara leg.

OPATRINI

†2. **Gonocephalum coenosum Kaszab, 1952**
Spec. exam. : 2 exs., Kurimajima, Ryukyus, Japan, 5. vii. 1977, H. Makihara leg.

TRACHYSCELINI

†3. **Trachyscelis chinensis Champion, 1894**
Spec. exam.: **2 exs.,** Kurimajima, Ryukyus, Japan, 5. vii. 1977, H. Makihara leg.

PHALERIINI

†4. **Micropedinus pallidipennis Lewis, 1894**
Spec. exam. : 29 exs., Kurimajima, Ryukyus, Japan, 5. vii. 1977, H. Makihara leg.

†5. **Phaleria (Epiphaleria) atriceps (Lewis, 1894)**

Spec. exam.: **1 ex.,** Kurimajima, Ryukyus, Japan, 5. vii. 1977, H. Makihara' leg.

DIAPERINI

†6. **Platydema marseuli** Lewis, 1894

Spec. ***exam.*** : 2 exs., Kurimajima, Ryukyus, Japan, **5.** vii. 1977, H. Makihara leg.

CNODALONINI

†7. **Hemicera sakishimensis** M. T. Chûjô, 1978

Spec. ***exam.*** : **8 exs.,** Kurimajima, Ryukyus, Japan, **5.** vii. 1977, H. Makihara leg. ; 3 exs., Kurimajima, Ryukyus, Japan, **5.** vii. 1977, H. Makihara leg.

†8. **Obriomaia palpalis palpaloides** Nakane, 1963

Spec. ***exam.:*** 1 ex., Kurimajima, Ryukyus, Japan, **5.** vii. 1977, H. Makihara leg.

IRABUJIMA I.

DIAPERINI

†1. **Diaperis lewisi intersecta** Gebien, 1913

Spec. ***exam.*** : 24 exs., Irabu I., Miyako Is., Ryukyus, 22. viii. 1969, H. Makihara leg.

TARAMAJIMA I.

OPATRINI

†1. **Gonocephalum coenosum** Kaszab, 1952

Spec. exam. : 1 ex.(at light), Tarama I., Miyako Is., Ryukyus, 27. v. 1974, H. Makihara leg.

CNODALONINI

†2. **Obriomaia palpalis palpaloides** Nakane, 1963

Spec. ***exam.*** : **2 exs.,** Tarama I., Miyako Is., Ryukyus, 27. v. 1974, H. Makihara leg.

TAKETOMIJIMA I.

AMARYGMINI

†1. **Amarygmus callichromus** Fairmaire, 1897

Spec. ***exam.*** : 1 ex., Taketomi I., Ryukyus, 16. iv. 1969, M. Chûjô leg.

IRIOMOTEJIMA I.

PEDININI

1. **Diphyrrhinchus iriomotensis** M. T. Chûjô, 1966
Spec. exam. : **51** exs., Holotype & 50 paratypes; 1 ex., Sonai-Shirahama, Iriomote I,, **6. x. 1963,** K. Morimoto leg. ; 4 exs., Ohara, Iriomote I., Ryukyus, 5. iv. 1969, R. Takubo leg.; 1 ex., Ohtomi, Is. Iriomote, 5. iv. 1969, Col. M. Chûjô; 3 exs., Inda, Iriomote I., Ryukyus, 9. iv. 1969, R. Takubo leg. ; 1 ex., Sonai, Iriomote, Nansei Is., Japan, 29. iv. 1974, Col. H. Irie ; 10 exs., Funaura, Iriomote I., Nansei Is., Japan, 6. v. 1974, Col. H. Irie ; 12 exs., Ohara-Otomi, Iriomote I., 30-31, v. 1974, M. Sato leg. ; 2 exs., Ohara-Komi, Iriomote I., Ryukyus, 24. vi. 1974, H. Makihara leg. ; 45 exs., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H. Makihara leg.
2. **Diphyrrhinchus oharensis** Nakane, 1973
Spec. exam. : 3 exs., Otomi, Triomote, Ryukyu Is., 25. Apr. 1969, H. Makihara leg. ; 2 exs., Funaura, Iriomote I., Nansei Is., Japan, 6. v. 1974, Col. H. Irie ; 2 exs., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H. Makihara leg.
3. **Diphyrrhinchus shibatai** Kaszab, 1964
Spec. exam. : 2 exs., Haimida, Iriomote Is., 9. vii. 1962, M. T. Chûjô leg.; 4 exs., Ohara, Iriomote Is., 8-18. viii. 1962, M. T. Chûjô leg. ; 91 exs., Haimizaki, Iriomote Is., 11. viii. 1962, M. T. Chûjô leg.

OPATRINI

4. **Gonocephalum coenosum** Kaszab, 1952
Spec. exam. : 1 ex., Ohara, Iriomote I., Ryukyus, 2. x. 1963, S. Miyamoto leg.; 1 ex., Inda, Iriomote I., Ryukyus, 10-11. iv. 1969, M. Chûjô leg. ; 2 exs., Otomi, Iriomote, Ryukyu Is., 25. Apr. 1969, H. Makihara leg. ; 1 ex., Otomi, Iriomote, Ryukyu Is., 29. Apr. 1969, H. Makihara leg.; 1 ex., Ohara, Iriomote I., Ryukyus, 23. vi. 1972, 0. Tadauchi leg. ; 1 ex., Ohara-Otomi, Iriomote I., 30-31. v. 1974, M. Sato leg.; 8 exs., Ohara-Toyohara, Iriomote I., Ryukyus, 22. vi. 1974, H. Makihara leg.
5. **Nesocaedius minimus (M. T.** Chûjô, 1966)
Spec. exam. : Holotype & 27 paratypes.

TRACHYSCELINI

†6. **Trachyscelis chinensis** Champion, 1894
Spec. exam. : 73 exs., Funaura, Iriomote I., Nansei Is., Japan, 6. v. 1974, Col. H. Irie.

PHALERIINI

7. **Micropedinus pallidipennis** Lewis, 1894
Spec. exam. : 1 ex., Shirahama, Iriomote I., Ryukyus, 3. x. 1963, K. Morimoto leg.; 1 ex., Otomi, Iriomote, Ryukyus, 25. Apr. 1969, H. Makihara

leg.

BOLITOPHAGINI

8. **Dicraeosis carinatus carinatus** Gebien, 1913

Spec. exam. : 1 ex., Itajiki brook, Iriomote I., Ryukyus, 26. viii. 1962, U. Ono leg.; 8 exs., Shirahama, Iri., Ryukyu Is., 31 Aug.-5. Sept. 1969, H. Makihara leg. ; 3 exs., Mokutan, Iriomote I., Ryukyus, 24. vi. 1970, H. Makihara leg.; 7 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 1 ex., Ohara-Mt. Goza, Iriomote I., Ryukyus, 23. vi. 1974, H. Makihara leg.

†9. **Bradymerus clathratus** Schaufuss, 1887

Spec. exam. : 1 ex., Ohara-Otomi, Iriomote I., 30-31. v. 1974, M. Sato leg.

†10. **Bolitoxenus bellicosus** Lewis, 1894

Spec. exam.: 8 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.

DIAPERINI

11. **Diaperis lewisi intersecta** Gebien, 1913

Spec. exam. : 1 ex., Shirahama, Iriomote I., Nansei Is., Japan, 4. x. 1963, K. Morimoto leg. ; 1 ex., Goza, Iri., Ryukyu Is., 15-21. Apr. 1969, H. Makihara leg. ; 10 exs., Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg. ; 1 ex., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.

12. **Ceropria induta induta** (Wiedemann, 1819)

Spec. exam.: 1 ex., Shirahama, Iriomote I., Ryukyus, 3. x. 1963, K. Morimoto leg. ; 22 exs., lower Nakamagawa, Iriomote I., Ryukyus, 6. iv. 1969, M. Chûjô leg. ; 1 ex., Inda, Iriomote I., Ryukyus, 10-11. iv. 1969, M. Chûjô leg.; 6 exs., Inaba, Iriomote I., Ryukyus, 12. iv. 1969, M. Chûjô leg. ; 2 exs., Shirahama, Iriomote I., Ryukyus, 13. iv. 1969, R. Takubo leg. ; 8 exs., Shirahama, Iriomote I., Ryukyus, 14. iv. 1969, M. Chûjô leg. ; 2 exs., Shirahama, Iri., Ryukyu Is., 31. viii.-5. Sept. 1969, H. Makihara leg. ; 16 exs., Shirahama, Iriomote, Ryukyu, 23. vi. 1970, H. Makihara leg. ; 62 exs., Shirahama, Iriomote, Ryukyu, 23-24. vi. 1970, H. Makihra leg. ; 3 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg. ; 39 exs., Shirahama, Iriomote, Ryukyu, 29-30. vi. '1970, H. Makihara leg. ; 3 exs., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

†13. **Platydema fumosum** Lewis, 1894

Spec. exam. : 1 ex., Shirahama, Iriomote I., Nansei Is., Japan, 4. x. 1963, K. Morimoto leg. ; 1 ex., Shirahama, Iriomote I., Ryukyus, 14. iv. 1969, M. Chûjô leg.; 3 exs., Shirahama, Iriomote I., Nansei Is., Japan, 3. v. 1974, Col. H. Irie; 1 ex., Shirahama, Iriomote I., Nansei Is., Japan, 5. v. 1974, Col. H. Irie.

14. Platydema marseuli Lewis, 1894

Spec. exam. : 1 ex., Ohara-Haimida, Iriomote I., Ryukyus, 8. iv. 1969, M. Chûjô leg. ; 1 ex., Sonai, Iriomotejima, Nansei Is., Japan, 4. v. 1974, Col. H. Irie ; 4 exs., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H, Makihara leg.; **3 exs.,** Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

15. **Platydema pallidicolle** (Lewis, 1894)

Spec. ***exam.*** : 1 ex., Otomi, Iriomote I., 12-13. viii. 1962, M. T. Chûjô leg.

16. **Platydema sakishimense** Nakane, 1973

Spec. ***exam.*** : 5 exs., lower Nakamagawa, Iriomote I., Ryukyus, 6. iv. 1969, M. Chûjô leg.

17. **Platydema sauteri omoto** Nakane, 1973

Spec. ***exam.*** **: 5 exs.,** Ohara-Haimida, Iriomote I., Ryukyus, 8. iv. **1969,** M. Chûjô leg.

18. **Platydema subfascia yaeyama** Nakane, 1973

Spec. ***exam.:*** 3 exs., Shirahama, Iriomotejima I., Nansei Is., Japan, 4. x. 1963, S. Miyamoto leg.; 1 ex., Ohara-Haimida, Iriomote I., Ryukyus, 8. iv. 1969, M. Chûjô leg.; 2 exs., Shirahama, Iriomote I., Ryukyus, 14. iv. 1969, M. Chûjô leg. ; 5 exs., Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg. ; 25 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 4 exs., Shirahama, Iriomote I., Nansei Is., Japan, 5. v. 1974, Col. H. Irie; 1 ex., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H. Makihara leg.

19. **Ischnodactylus iriomotensis** Ando, 1978

Spec. ***exam.*** **: 40** exs.(paratypes), Nakara River, Iriomote I., Ryukyus, 25-**28.** vi. 1970, H. Makihara leg.; 2 exs.(paratypes), Shirahama, Iriomote I., Ryukyus, 29--30. vi. 1970, H. Makihara leg.

20. **Pentaphyllus dilatipes** Shibata, 1978

Spec. ***exam.:*** 13 exs., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H. Makihara leg. ; 17 exs., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

†21. **Pentaphyllus quadricornis** Gebien, 1914

Spec. ***exam.:*** 46 exs., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H. Makihara leg.; 36 exs., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

LEIOCHRINI

22. **Derispia japonica** Kaszab, 1961

Spec. exam. : 1 ex., Nakara River, Iriomote, Ryukyu, 25-28. v. 1970, H. Makihara leg. ; 1 ex., Urauchi Riv., Iriomote Is., 22. vii. 1971, leg. I. Matoba ; 1 ex., Sonai, Iriomotejima, Nansei Is., Japan, 6. iv. 1973, Col. H. Irie; 1 ex., Sonai, Iriomotejima, Nansei Is., Japan, 4. v. 1974, Col. H.

Irie; 2 exs., Kampire-fall, Iriomotejima, Nansei Is., Japan. 14. iv. 1975, Col. H. Irie.

PHRENAPATINI

23. **Tagalus tokaranus** Nakane, 1963

Spec. exam. : 1 ex., Sonai, Iriomote I., Nansei Is., Japan, 9. x. 1963, K. Morimoto leg. ; 1 ex., Otomi, Iriomote, Ryukyu Is., 28. Apr. 1969, H. Makihara leg.

ULOMINI

24. **Tribolium (Tribolium) castaneum** (Herbst, 1797)

Spec. exam. : 1 ex., Shirahama, Iriomote Is., 2. xi. 1963, G. A. Samuelson leg.

25. **Cneocnemis laminipes** Gebien, 1913

Spec. exam.: 2 exs., Ohara, Iriomote I., Ryukyus: 27-31. viii. 1962, M. T. Chûjô leg.

26. **Uloma excisa excisa** Gebien, 1913

Spec. exam.: 1 ex., Ohara, Iriomote I., Nansei Is., Japan, 2. x. 1963, K. Morimoto leg. ; 1 ex., Inda, Iriomote I., Ryukyus, 10-11. iv. 1969, M. Chûjô leg. ; 1 ex., Otomi, Iriomote, Ryukyu Is., 24. Apr. 1969, H. Makihara leg. ; 1 ex., Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg. ; 3 exs., Shirahama, Iriomote I., Nansei Is., Japan, 3. v. 1974, Col. H. Irie ; 1 ex., Shirahama, Iriomote I., Nansei Is., Japan, 5. v. 1974, Col. H. Irie ; 2 exs., Ohara-Toyohara, Iriomote I., Ryukyus, 22. vi. 1974, H. Makihara leg.

†27. **Uloma polita** Wiedemann, 1821

Spec. exam. : 1 ex., Inda, Iriomote I., Ryukyus, 13. iv. 1969, R. Musashino leg. ; 1 ex., Inda, Iriomote I., Ryukyus, 16. iv. 1969, R. Musashino leg. ; 1 ex., Inda, Iriomote I., Ryukyus, 18. v. 1969, R. Musashino leg. ; 2 exs., Otomi, Iriomote, Ryukyu Is., 23. Apr. 1969, H. Makihara leg. ; 1 ex., Otomi, Iriomote, Ryukyu Is., 25. Apr. 1969, H. Makihara leg.; 1 ex., Ohara, Iriomote Is., 24. Aug. 1970, S. Toshima leg. ; 5 exs., Inda, Is. Iriomote, 25. viii. 1970, Col. M. Chûjô; 14 exs., Ohara-Otomi, Iriomote I., 30-31. v. 1974, M. Sato leg. ; 8 exs.(at light), Ohara, Iriomote I., Ryukyus, 22. vi. 1974, H. Makihara leg. ; 1 ex., Ohara-Komi, Iriomote I., Ryukyus, 24. vi. 1974, H. Makihara leg. ; 4 exs.(night), Ohara, Iriomote-jima, 26. x. 1974, K. Ohara leg. ; 1 ex., Funaura, Iriomote I., Ryukyus, Japan, 12. iv. 1979, H. Makihara leg.

†28. **Alphitobius diaperinus** (Panzer, 1797)

Spec. exam. : 1 ex., Inda, Iriomote I., Ryukyus, 24. iv. 1969, R. Musashino leg.

29. **Alphitobius laevigatus** (Fabricius, 1781)

Spec. exam. : 1 ex., Sonai, Iriomotejima, Nansei Is., Japan, 6. iv. 1973, Col.

H. Irie.

†30. **Diaclina quadrimaculata** (Gebien, 1913)

Spec. exam. : 6 exs., Ohara-Haimida, Iriomote I., Ryukyus, 8. iv. 1969, M. Chûjô leg. ; 9 exs., Haimida, Iriomote I., Ryukyus, 8. iv. 1969, R. Takubo leg.; 1 ex., Uehara, Iriomote I., Ryukyus, 25. v. 1975, H. Makihara leg. ; 2 exs., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

31. **Leptoscapha unifasciata** Kaszab, 1964

Spec. exam. : 2 exs., Goza, Iriomote Is., Ryukyu, 14. viii. 1962, M. T. Chûjô leg.; 14 exs., Shirahama, Iriomote Is., Ryukyu, 21-23. viii. 1962, M. T. Chûjô leg.; 1 ex., Mt. Ushiku 350 m, Iriomote I., Ryukyu Is., 4. xi. 1963, G. A. Samuelson leg.

32. **Eutochia lateralis** (Boheman, 1858)

Spec. exam.: 1 ex., Ohara, Iriomote Is., Ryukyus, 27-31. viii. 1962, M. T. Chûjô leg. ; 2 exs., Sonai-Shirahama, Iriomote I., Ryukyus, 6. x. 1963, K. Morimoto leg.; 4 exs., Sonai, Iriomote I., Nansei Is., Japan, 3. v. 1974, Col. H. Irie; 1 ex., Funaura, Iriomote I., Ryukyus, Japan, 12. iv. 1979, H. Makihara leg.

33. **Hypophloeus (Paraphloeus) amamiensis** Kaszab, 1964

Spec. exam. : 7 exs., Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg.; 1 ex., Ohtomi, Is. Iriomote, 6. iv. 1969, M. Chûjô leg.; 1 ex., Haimida, Is. Iriomote, 7. iv. 1969, Col. M. Chûjô; 1 ex., Komi, Is. Iriomote, 8. iv. 1969, Col. M. Chûjô; 1 ex., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

34. **Hypophloeus (Paraphloeus) gentilis** (Lewis, 1894)

Spec. exam. : 1 ex., Shirahama, Iriomote I., 21-23. vii. 1962, M. T. Chûjô leg.

TENEBRIONINI

35. ***Setenis iriomotensis* sp. nov.**

Elongate, gently convex, shining black. Head coarsely punctate, interocular area weakly convex, inner ocular grooves shallow, preocular areas weakly and roundly expanded, with clypeal suture shallow and semicircular, clypeus slightly deflexed at apex. Labrum nearly trapezoidal, coarsely facetted, comparatively strongly prominent outwards. Antennae stout, short, barely reaching basal margin of pronotum; relative length of each segment (base to apex) = 10 : 4 : 12 : 10 : 8 : 8 : 8 : 8 : 7 : 7 : 12.

Pronotum moderately convex, coarsely and strongly punctate, with two shallow dimples on each side of shallow median channel (3/8 from base), nearly 1.5 times as wide as long, widest at median part ; narrowly and wholly marginate except for median 1/3 of front margin, front

margin nearly straight, front corner widely rounded, side margin roundly expanded at frontal 5/6, basal 1/6 nearly parallel, basal corner makes an angle of ca. 80 degrees, apex comparatively sharp, basal margin very weakly sinuate near basal corner, median 7/10 roundly expanded backwards.

Elytra moderately convex, with punctate-striae, interstices convex, very sparsely aciculate, base much wider than pronotal one, widest at 3/5 from base, basal margin of elytron roundly expanded, shoulder widely rounded, shoulder to apex narrowly marginate.

First maxillarly palpus moderately securiformed, penultimate segments weakly flattened. Mentum convex, with dense bristles, nearly trapezoidal, widened forwards, apical corners obliquely truncate ;tempola to gula roughly carved, gular suture shallow but visible.

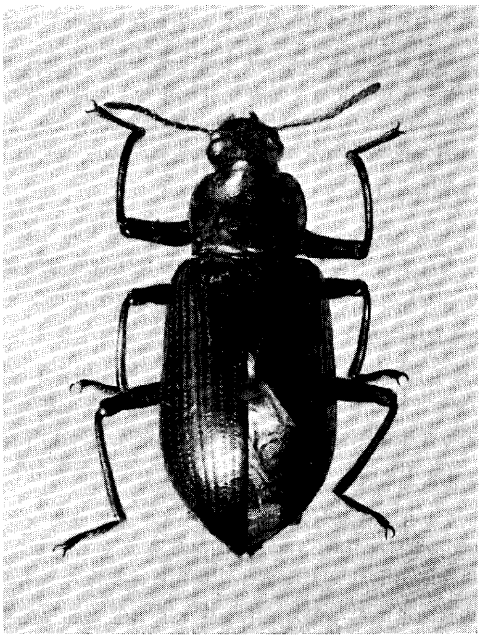

Fig. 1 *Setenis iriomotensis* sp. nov.

Prosternum roughly and sparsely punctate, prosternal process nearly parallel-sided, U-shaped submarginal groove deep, subapical part transversally depressed, apex roundly but very feebly expanded. Propleura very sparsely aciculate ; mesonotum very densely granulate, hind margin strongly convex in V-shape: metanotum with very sparse aciculae and irregular lines. First to 3rd visible abdominal sternites with sparse punctures and lines, punctures on penultimate and terminal segments becoming gradually denser and finer towards apex.

Front femora very gently warped outwards, outside expanded at median part, middle and hind femora slightly depressed. Front tibiae gradually thickened towards apex, comparatively strongly incurved in ♂, very gently incurved in ♀ and a little shorter than ♂, middle and hind tibiae rather simple. Front tarsi comparatively stout, 2nd segment a little shorter than 1st, 3rd nearly equal to 2nd, terminal segment 1.3 times as long as preceding 4 put together.

Length : 16.0 mm. Width: 6.4-6.6 mm.

DISTRIBUTION: Iriomotejima I.

TYPE MATERIAL: Holotype ♂ (Type No. 2166. Kyusyu Univ.), Shirahama, Iriomote, Nansei Is., Japan, 3. v. 1974, Col. H. Irie. Paratopotype 1♀, same data as holotype.

TYPE DEPOSITORY: Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

This species is related to S. *striatipennis* Lewis, 1894 from Japan (Kyushu), but may clearly be distinguished from the latter through the following characters : body much smaller, two longitudinal grooves on interocular area somewhat faint, hind corners of pronotum more strongly projected, and middle and hind tibiae very slightly depressed.

†36. **Encyalesthus nitidipennis** Fairmaire, 1898

Spec. exam. : **2 exs.,** Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg.; 6 exs., Nakara River, Triomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg. ; 1 ex., Ohara-Otomi, Iriomote I., 30-31. v. 1974, M. Sato leg.

t37. **Menephilus arciscelis** Marseul, 1876

Spec. exam. : 1 ex., Shirahama, Iriomote, Ryuukyu, 29-30. vi. 1970, H. Makihara leg.; 1 ex., Inda, Is. Iriomote, 25. viii. 1970, Col. M. Chûjô; 1 ex. (night), Oohara, Iriomote-jima, 26. x. 1974, K. Ohara leg.

38. **Toxicum funginum** Lewis, 1894

Spec. exam. .. 1 ex., Shirahama, Iriomote I., Ryukyus, Japan, 3. x. 1963, S. Uéno leg.; 1 ex., Shirahama, Iriomote I., Ryukyus, 14. iv. 1969, M. Chûjô leg. ; 1 ex., Shirahama, Iriomote, Nansei Is., Japan, 3. v. 1974, Col. H. Irie; 2 exs., Shirahama, Iriomotejima, Nansei Is., Japan, 5. v. 1974, Col. H. Irie.

39. ***Cryphaeus satoi iriomotensis*** **subsp. nov.**

This subspecies is closely related to C. ***satoi satoi*** Kaszab, 1964 from Nakanoshima I. and Amami-Oshima I., but may be distinguished from the latter through the sparser and smaller punctures on the dorsal surface.

Length: 7.6–9.5 mm.

Width : 2.9-3. 3 mm.

DISTRIBUTION: Iriomotejima I.

TYPE MATERIAL: Holotype ♂ (Type No. 2167, Kyushu Univ.), Funaura, Iriomote I., Nansei Is., Japan, 14. iv. 1979, H. Makihara leg. Paratopotype

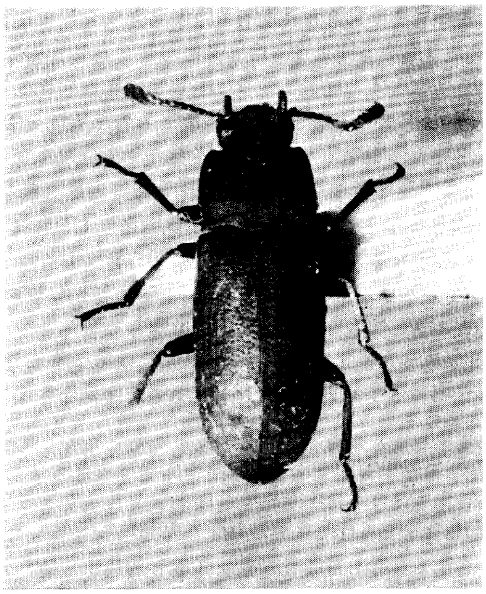

Fig. 2 *Cryphaeus satoi iriomotensis* subsp. nov.

lo", same data as holotype. Paratypes :1♂, Up. Riv Kuira, Is. Iriomote, 16. v. 1967, Y. Yamawaki leg. ;1♂, Nakara River, Iriomote, Ryukyus, 25-28. vi. 1970, H. Makihara leg. ;1♂, Komi, Iriomote Is., 24-26. x. 1973, M. Owada leg.; 1♀, Kampire-Fall. Iriomotejima, Nansei Is., Japan, 14. iv. 1975, Col. H. Irie.

CNODALONINI

40. **Hemicera sakishimensis** M. T. Chûjô, 1978
Spec. exam. (additional specimens to the original description) : 1 ex., Shirahama, Iriomote, Ryukyu, 23-24. vi. 1970, H. Makihara leg. ; 5 exs., Funaura, Ryukyus, Japan, 14. iv. 1979, H. Makihara leg.

41. **Hemicera zigzaga** Marseul, 1876
Spec. exam.: 5 exs., lower Nakamagawa, Iriomote I., Ryukyus, 6. iv. 1969, M. Chûjô leg.; 1 ex., Kampire-Fall, Iriomotejima, Nansei Is., Japan, 7. iv. 1973, Col. H. Irie ; 1 ex., Ohara-Komi, Iriomote I., Ryukyus, 24. vi. 1974, H. Makihara leg. ; 1 ex., Uehara, Iriomote I., Ryukyus, 25. v. 1975, H. Makihara leg.; 2 exs., Funaura, Iriomote I., Ryukyus, Japan, 14. iv. 1979, H. Makihara leg.; 1 ex., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

42. **Plamius yaeyamensis** Nakane, 1968
Spec. exam.: 1 ex., Ohara, Iriomote I., Ryukyus, 5. iv. 1969, R. Takubo leg.; 1 ex., Inda, Iriomote I., Ryukyus, 10–11. iv. 1969, M. Chûjô leg.; 5 exs., Otomi, Iriomote, Ryukyu Is., 12. Apr. 1969, H. Makihara leg. ; 1 ex.,

Shirahama, Iriomote I., Ryukyus, 14. iv. 1969, M. Chûjô leg. ; 2 *exs.*, Mt. Goza, Iri., Ryukyu Is., 15-21. Apr. 1969, H. Makihara leg. ; 1 ex., Otomi, Iriomote, Ryukyu Is., 24. Apr. 1969, H. Makihara leg. ; 2 exs., Shirahama, Iriomote, Ryukyus, 23. vi. 1970, H. Makihara leg.; 2 exs., Mokutan, Iriomote, Ryukyu, 24. vi. 1970, H. Makihara leg. ; 9 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 1 ex., Shirahama, Iriomotejima, Nansei Is., Japan, 9. iv. 1973, Col. H. Irie ; 2 exs., Ohara-Mt. Goza, Iriomote I., Ryukyus, 23. vi. 1974, H. Makihara leg. ; 3 exs., Funaura, Iriomote I., Ryukyus, Japan, 12. iv. 1979, H. Makihara leg.

43. **Gnesis magnipunctatus** (M. T. Chûjô, 1966)
Spec. exam. : **4** paratypes ; 2 exs., Mokutan, Iriomote, Ryukyu, 24. vi. 1970, H. Makihara leg.; 1 ex., Shirahama, Iriomotejima, Nansei Is., Japan, 9. iv. 1973, Col. H. Irie.

44. **Phaedis (Phaedis) marmoratus** M. T. Chûjô, 1978
Spec. exam.: Holotype & 8 paratypes.

45. **Obriomaia palpalis palpaloides** Nakane, 1963
Spec. exam.: 4 exs., Otomi, Iriomote, Ryukyu Is., 12. Apr. 1969, H. Makihara leg. ; 1 ex., Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg.; 1 ex., Shirahama, Iriomote, Ryukyu, 23-24. vi. 1970, H. Makihara leg.; 1 ex., Mokutan, Iriomote, Ryukyu, 24. vi. 1970, H. Makihara leg. ; 4 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 1 ex., Kampire-Fall, Iriomote, Ryukyu, 26. v. 1975, H. Makihara leg.; 3 exs., Uehara, Iriomote I., Ryukyus, 27. v. 1975, H. Makihara leg.

46. **Pseudonautes purpurivittatus** (Marseul, 1876)
Spec. exam. : 1 ex., Otomi, Iriomote, Ryukyu Is., 24. Apr. 1969, H. Makihara leg.; 2 exs. Otomi, Iriomote, Ryukyu, Is., 12. Apr. 1969, H. Makihara leg.; 1 ex., Shirahama, Iriomote, Ryukyu, 23. vi. 1970, H. Makihara leg. ; 1 ex., Mokutan, Iriomote I., Ryukyus, 24. vi. 1970, H. Makihara leg.; 4 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 1 ex., Ohara-Mt. Goza, Iriomote I., Ryukyus, 23. vi. 1974, H. Makihara leg. ; **2 exs.,** Kampire-Fall, Iriomote, Ryukyu, 26. v. 1975, H. Makihara leg.

47. **Campsiomorpha imperialis** (Fairmaire, 1903)
Spec. exam. : 2 *exs.*, Mt. Goza, Iri., Ryukyu Is., 15-21. Apr. 1969, H. Makihara leg.; 1 ex., Mokutan, Iriomote, Ryukyu, 24. vi. 1970, H. Makihara leg.; 5 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 1 ex., Ohara-Mt. Goza, Iriomote I., Ryukyus, 23. vi. 1974, H. Makihara leg.; 1 ex., Uehara, Iriomote I., Ryukyus, 27. v. 1975, H. Makihara leg.; 1 ex., Komi, Iriomotejima I., Nansei Is., Japan, 22. vii. 1978, T. Mizukubo leg.

HELOPINI

t48. **Tarpela brunnea konoi** Nakane, 1963

Spec. exam. : 1 ex., Sonai, Iriomotejima, Nansei Is., Japan, 29. iv. 1974, Col. H. Irie; 1 ex., Hoshidate-Inaba, Iriomote, Nansei Is., Japan, 4. v. 1974, Col. H. Irie.

AMARYGMINI

49. Amarygmus callichromus Fairmaire, 1897

Spec. exam. : 1 ex., Sonai, Iriomote I., Ryukyus, Japan, 6. x. 1963, K. Morimoto leg. ; **1 ex.,** lower Nakamagawa, Iriomote I., Ryukyus, 6. iv. 1969, M. Chûjô leg. ; 1 ex., Shirahama, Iriomote, Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg.; 2 exs., Shirahama, Iriomote, Ryukyu, 23. vi. 1970, H. Makihara leg. ; 3 exs., Komi, Iriomote Is., 24-26. x. 1973, M. Owada leg.; **1 ex.,** Ohara-Otomi, Iriomote I., 30-31. v. 1974, M. Sato leg. ; 8 exs. (at light), Uehara, Iriomote I., 'Ryukyus, 25. v. 1975, H. Makihara leg. ; 12 exs., Funaura, Iriomote I., Ryukyus, Japan, 12. iv. 1979, H. Makihara leg. ; 16 exs., Funaura, Iriomote I., Ryukyus, Japan, 15. iv. 1979, H. Makihara leg.

50. *Plesiophthalmus gracilis* sp. nov.

Oval, strongly convex, shining dark brown, head and pronotum strongly darkened. Head densely and strongly punctate except for pre-

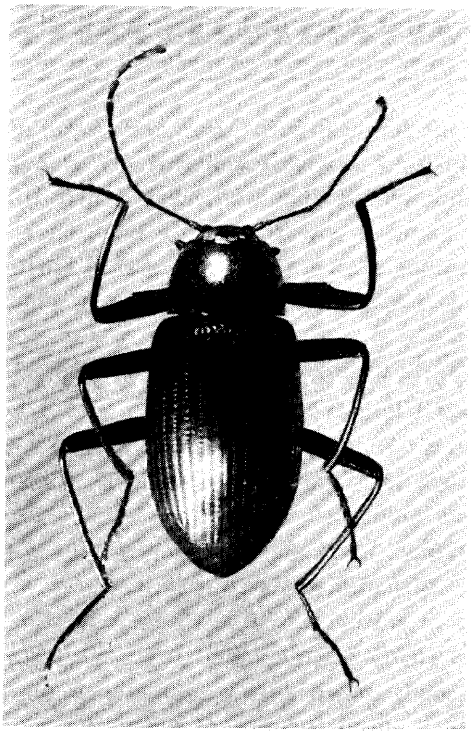

Fig. 3 *Plesiophthalmus gracilis* sp. nov.

ocular area with finely and sparsely punctate, interocular area slightly depressed, clypeal suture very fine, clypeus somewhat projecting forwards, apex very feebly sinuate. Eyes large, finely facetted.

Pronotum moderately convex, strongly but sparsely punctate, front and sides narrowly marginate ; front margin wholly and shallowly sinuate ; front corners somewhat rounded, sides gently and roundly expanded widened towards base, base widest. Elytra strongly convex, shoulder to apex very narrowly marginate, base a little wider than pronotum, with striate-punctures comparatively large and deep ; interstices convex, very sparsely aciculate and wrinkled.

Antennae with basal segments thick, 8th to terminal ones making loose club, 8th to penultimate ones nearly similar to each other in shape and size, relative length of each segment (base to apex) = 5 : 2 : 15 : 7 : 11 : 9 : 9 : 7 : 7 : 7 : 7. Mentum weakly convex, with very large and sparse punctures, gula minutely aciculate. Prosternum sparsely punctate ; prosternal process roundly convex, but medially grooved at inter-coxal area, roundly widened towards base, widened part convex and very roughly carved. Mesosternum strongly roughened except for inter-coxal area. Metasternum with very fine wrinkles, median part of subbase sparsely punctate. First to penultimate visible abdominal sternites sparsely punctate and wrinkled along both sides, terminal segment sparsely and finely punctate, apex somewhat trapezoidal but both front corners gently rounded.

Inside of front femora with thin and wide projection at 2/3 from base, middle and hind femora comparatively strongly depressed. Front tibiae weakly and roundly incurved, very gently thickened towards apex, very slightly expanded inwards at 3/8 from base. Front tarsi slender and simple, terminal segment nearly equal to 1st to 3rd ones put together in length, 1st segment of hind tarsi nearly equal to terminal one in length.

Length: 11. 5-13. Omm. Width: 4. 9—5. 5 mm.

DISTRIBUTION : Iriomotejima I.

TYPE MATERIAL: Holotype ♂ (Type No. 2168, Kyushu Univ.), Hidori, Iriomote I., Nansei Is., Japan, 2. iv. 1975, K. Kusama leg. Paratopotype 1♂, same data as holotype.

TYPE DEPOSITORY: Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

This species is closely allied to *P. laevicollis* Harold, 1878 from Japan (Honshu), but is easily distinguished from the latter through the following characters : body much larger, punctures on head and pronotum larger and denser, hind corners of pronotum more strongly angulate, front tibiae more strongly incurved, and inter-coxal area of prosternal

process more strongly convex.

51. **Plesiophthalmus fuscoaenescens** Fairmaire, 1898

Spec. exam. : 1 ex., Inda, Iriomote I., Ryukyus, **13.** iv. 1969, R. Musashino leg.; 4 exs., Shirahama, Iriomote I., Ryukyus, **14.** iv. 1969, M. Chûjô leg.; **3 exs.,** Mt. Goza, Iri., Ryukyu Is., 15-21. Apr. 1969, H. Makihara leg. ; **1 ex.,** Otomi, Iriomote, Ryukyu Is., 24. Apr. 1969, H. Makihara leg. ; 1 ex., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.; 1 ex., Shirahama, Iriomote, Ryukyu, 29-30. vi. 1970, H. Makihara leg.; 1 ex., Kampire-Fall, Iriomotejima, Nansei Is., Japan, 7. iv. **1973,** Col. H. Irie ; 2 exs., Shirahama, Iriomotejima, Nansei Is., Japan, 9. iv. 1973, Col. H. Irie; 1 ex., Ohara-Mt. Goza, Iriomote I., Ryukyus, 23. vi. 1974, H. Makihara leg.; 4 exs., Ohara-Otomi, Iriomote I., 30-31. v. 1974, M. Sato leg.; 5 exs., Ue hara, Iriomote I., Ryukyus, 25. v. 1975, H. Makihara leg. ; 1 ex., Kampire-Fall, Iriomote, Ryukyu, 26. v. 1975, H. Makihara leg. ; 3 exs., Uehara, Iriomote I., Ryukyus, 27. v. 1975, H. Makihara leg.

52. **Elixota iridicollis** Nakane, 1968

Spec. exam.: 1 ex., Shirahama, Iri., Ryukyu Is., 31. Aug.-5. Sept. 1969, H. Makihara leg. ; 1 ex., Kampire-Fall, Iriomotejima, Nansei Is., Japan, 8. iv. 1973, Col. H. Irie.

STRONGYLIINI

53. **Strongylium cultellatum** Mäklin, 1866

Spec. exam. : **2 exs.,** Otomi, Iriomote, Ryukyu Is., 28. Apr. 1969, H. Makihara leg.; 1 ex., Shirahama, Iriomote, Ryukyu, 23-24. vi. 1970, H. Makihara leg.; 1 ex., Mokutan, Iriomote, Nansei Is., Japan, 24. vi. 1970, H. Makihara leg.; 4 exs., Nakara River, Iriomote, Ryukyu, 25-28. vi. 1970, H. Makihara leg.

†54. **Strongylium shibatai** Nomura, 1963

Spec. exam. : **5 exs.,** Shirahama, Iriomote I., Nansei Is., Japan, 3. v. 1974, Col. H. Irie.

†55. **Ainu masumotoi** Nakane, 1968

Spec. exam.: 1 ex., Mt. Goza, Iri., Ryukyu Is., 15-21. Apr. 1969, H. Makihara leg. ; 1 ex., Kampire-Fall, Iriomotejima, Nansei Is., Japan, 7. iv. 1973, Col. H. Irie; 4 exs., Kampire-Fall, Iriomotejima, Nansei Is., Japan, 22. iv. 1973, Col. H. Irie ; 2 exs., Kampire-Fall, Iriomotejima, Nansei Is., Japan, **14.** iv. 1975, Col. H. Irie; 1 ex., Kampire-Fall, Iriomotejima, Nansei Is., Japan, 15. iv. 1975, Col. H. Irie.

YONAGUNIJIMA I.

PEDININI

†1. **Diphyrrhinchus oharensis** Nakane, 1973

Spec. exam. : **4 exs.,** Hikawa, Yonaguni, Nansei Is., Japan, 11. v. 1974, Col.

H. Irie ; 2 exs., Hikawa, Yonaguni, Nansei Is., Japan, 17. v. 1974, Col. H. Irie leg.

†2. **Diphyrrhinchus shibatai** Kaszab, 1963
Spec. exam. : 4 exs., Hikawa, Yonaguni, Nansei Is., Japan, 11. v. 1974, Col. H. Irie.

OPATRINI

†3. **Gonocephalum senkakuensis** M. T. Chûjô, 1973
Spec. exam. : **4 exs.,** Sonai, Yonaguni I., Nansei Is., Japan, 9. v. 1974, Col. H. Irie ; 2 exs., Hikawa, Yonaguni, Nansei Is., Japan, 11. v. 1974, H. Irie leg. ; **2 exs.,** Hikawa, Yonaguni, Nansei Is., Japan, 17. v. 1974, H. Irie leg.

†4. **Caedius maderi** Kaszab, 1942
Spec. exam. : **5 exs.,** Hikawa, Yonaguni, Nansei Is., Japan, 11. v. 1974, H. Makihara leg.; 1 ex., Nunbaru, Yonaguni Is., 15. v. 1974, H. Hiramatsu leg.

BOLITOPHAGINI

†5. **Dicraeosis carinatus carinatus** Gebien, 1913
Spec. exam. : 2 exs., Sonai, Yonaguni, Ryukyu Is., 25-29. Aug. 1969, H. Makihara leg. ; ***2 exs., Sonai,*** Yonaguni, Ryukyu, 6-8. vii. 1970, H. Makihara leg. ; 8 exs.(at light), Sonai, Yonaguni I., Ryukyus, 8. vi. 1974, H. Makihara leg. ; 2 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 9. vi. 1974, H. Makihara leg. ; 2 exs., Sonai, Yonaguni I., Ryukyus, 21. v. 1975, H. Maki hara leg. ; 5 exs., Sonai, Yonaguni I., Ryukyus, 22. v. 1975, H. Makihara leg. ; 2 exs., Sonai, Yonaguni I., Ryukyus, 23. v. 1975, H. Makihara **leg.**

DIAPERINI

†6. **Diaperis lewisi** intersecta Gebien, 1913
Spec. exam. : 3 exs.(at light), Sonai, Is Yonaguni, 31. viii. 1970, Col. M. Chûjô.

†7. **Platydema marseuli** Lewis, 1894
Spec. exam. : 41 exs., Yonaguni I., Ryukyus, Japan, 11. iv. 1979, H. Makihara leg.

†8. **Platydema pallidicolle** (Lewis, 1894)
Spec. exam.: 1 ex., Mt. Urabu, Yonaguni, Nansei Is., Japan, 14. v. 1974, Col. H. Irie.

†9. **Platydema subfascia subfascia** (Walker, 1858)
Spec. exam. : **6 exs.,** Sonai, Yonaguni, Ryukyu Is., 25-29. viii. 1969, H. Makihara leg. ; 5 exs., Mt. Urabu, Yonaguni, Nansei Is., Japan, 14. v. 1974, Col. H. Irie; 1 ex., Yonaguni I., Ryukyus, Japan, 11. iv. 1979, H. Makihara leg.

ULOMINI

†10. **Uloma excisa excisa** Gebien, 1913

Spec. exam. : 1 ex., Sonai, Is. Yonaguni, 31. viii. 1970, Col. M. Chûjô; 2 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 8. vi. 1974, H. Makihara leg.

†11. **Uloma polita** Wiedemann, 1821

Spec. exam. : 4 exs. (at light), Sonai, Is. Yonaguni, 31. viii. 1970, Col. M. Chûjô; 2 exs.(at light), Sonai, Yonaguni I., Ryukyus, 9. vi. 1974, H. Makihara leg.

†12. **Alphitobius laevigatus** (Fabricius, 1781)

Spec. exam. : 1 ex., Sonai, Yonaguni I., Nansei Is., Japan, 12. v. 1974, Col. H. Irie.

†13. **Eutochia lateralis** (Boheman, 1858)

Spec. exam. : 2 exs., Yonaguni I., Ryukyus, 12. vi. 1965, K. Iha leg.

†14. **Hypophloeus (Paraphloeus) amamiensis** Kaszab, 1964

Spec. exam.: 7 exs., Sonai, Yonaguni, Ryukyu Is., 25-29. Aug. 1969, H. Makihara leg.

CNODALONINI

15. **Hemicera sakishimensis** M. T. Chûjô, 1978

Spec. exam. (additional specimens to the original description) : 1 ex., Sonai, Yonaguni, Ryukyus, 10. iv. 1979, H. Makihara leg. ; 2 exs., Yonaguni I., Ryukyus, Japan, 11. iv. 1979, H. Makihara leg.

†16. **Hemicera zigzaga** Marseul, 1876

Spec. exam. : 1 ex., Sonai, Yonaguni I., Ryukyus, 6. iv. 1974, K. Kusama leg. ; 1 ex.(at light), Sonai, Yonaguni I., Ryukyus, 9. vi. 1974, H. Makihara leg. ; 1 ex.(at light), Sonai, Yonaguni I., Ryukyus, 13. vi. 1974, H. Makihara leg. ; 3 exs., Yonaguni I., Ryukyus, Japan, 11. iv. 1979, H. Makihara leg.

†17. **Plamius yaeyamensis** Nakane, 1968

Spec. exam. : 3 exs., Sonai, Yonaguni, Ryukyu Is., 25-29. Aug. 1969, H. Makihara leg.; 8 exs., Sonai, Yonaguni, Ryukyu, 6-8. vii. 1970, H. Makihara leg. ; 5 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 8. vi. 1974, H. Makihara leg. ; 5 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 9. vi. 1974, H. Makihara leg. ; 3 exs., Sonai, Yonaguni I., Ryukyus, 13. vi. 1974, H. Makihara leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, 14. vi. 1974, H. Makihara leg. ; 2 exs., Sonai, Yonaguni I., Ryukyus, 21. v. 1975, H. Makihara leg. ; 5 exs., Sonai, Yonaguni I., Ryukyus, 22. v. 1975, H. Makihara leg. ; 2 exs., Sonai, Yonaguni I., Ryukyus, 23. v. 1975, H. Makihara leg. ; 2 exs., Sonai, Yonaguni, Ryukyus, 10. iv. 1979, H. Makihara leg. ; 3 exs., Yonaguni I., Ryukyus, Japan, 11. iv. 1979, H. Makihara leg.

†18. **Gnesis magnipunctatus** (M. T. Chûjô, 1966)

Spec. exam. : 7 exs., Sonai, Yonaguni, Ryukyu Is., 25-29. Aug. 1969, H. Makihara leg. ; 1 ex., Sonai, Yonaguni, Ryukyu, 6-8. vii. 1970, H. Makihara leg. ; 1 ex.(at light), Sonai, Yonaguni I., Ryukyus, 29. iii. 1974, K. Kusama leg. ; 1 ex.(at light), Sonai, Yonaguni I., Ryukyus, 30. iii. 1974, K. Kusama leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, 3. iv. 1974, K. Kusama leg. ; 2 exs., Sonai, Yonaguni I., Ryukyus, 5. iv. 1974, K. Kusama leg. ; 3 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 9. vi. 1974, H. Makihara leg. ; 1 ex., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 10. vi. 1974, H. Makihara leg. ; 2 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 13. vi. 1974, H. Makihara leg. ; 2 exs., Sonai, Yonaguni I., Ryukyus, 21. v. 1975, H. Makihara leg. ; 5 exs., Sonai, Yonaguni I., Ryukyus, 22. v. 1975, H. Makihara leg.; 8 exs., Sonai, Yonaguni I., Ryukyus, 23. v. 1975, H. Makihara leg. ; ***2 exs.,*** Yonaguni I., Ryukyus, Japan, 12. iv. 1979, H. Makihara leg.

19. **Oedemutes hirashimai** M. T. Chûjô, 1973

Spec. ***exam.*** : Holotype & 4 paratypes ; 2 exs.(at light), Sonai, Yonaguni I., Ryukyus, 30. iii. 1974, K. Kusama leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, 3. iv. 1974, K. Kusama leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, 5. iv. 1974, K. Kusama leg. ; 1 ex., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 8. v. 1974, H. Makihara leg.; 6 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 9. vi. 1974, H. Makihara leg.; 2 exs., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 14. vi. 1974, H. Makihara leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, 22. v. 1975, H. Makihara leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, **23. v. 1975,** H. Makihara leg.

†20. **Obriomaia palpalis palpaloides** Nakane, 1963

Spec. ***exam.:*** 1 ex., Sonai, Yonaguni, Ryukyu, 6-8. vii. 1970, H. Makihara leg. ; 1 ex.(at light), Sonai, Yonaguni I., Ryukyus, 8. vi. 1974, H. Makihara leg.; 1 ex., Sonai-Mt. Urabu, Yonaguni I., Ryukyus, 13. vi. 1974, H. Makihara leg. ; 1 ex., Sonai, Yonaguni I., Ryukyus, 22. v. 1975, H. Makihara leg.

†21. **Pseudonautes purpurivittatus** (Marseul, 1876)

Spec. ***exam.*** : 1 ex., Sonai, Yonaguni, Ryukyu Is., 25-29. Aug. 1969, H. Makihara leg.

AMARYGMINI

22. ***Plesiophthalmus punctatus*** **sp. nov.**

Oval, strongly convex, black with copper tinge. Head densely pubescent, interocular area narrow, median channel very shallow, clypeal suture very fine but visible. Eyes very large, finely facetted. Pronotum strongly convex, densely punctate, front margin arched above, front corners angulate, side margins roundly warped outwards, widest at 1/3 from base, hind corners angulate. Scutellum semicircular, apex very obtusely angulate, finely punctate.

Elytra strongly convex, very wide in ♀, with punctate-striae, punc-

tures very large and deep, interstices finely but densely punctate, moderately convex, shoulder to apex very narrowly marginate. Antennae long, 1st segment thick, 6th to terminal one forming very loose club, relative length of each segment (base to apex) = 7 : 2 : 14 : 9 : 12 : 11: 10 : 8 : 8 : 7 : 8.

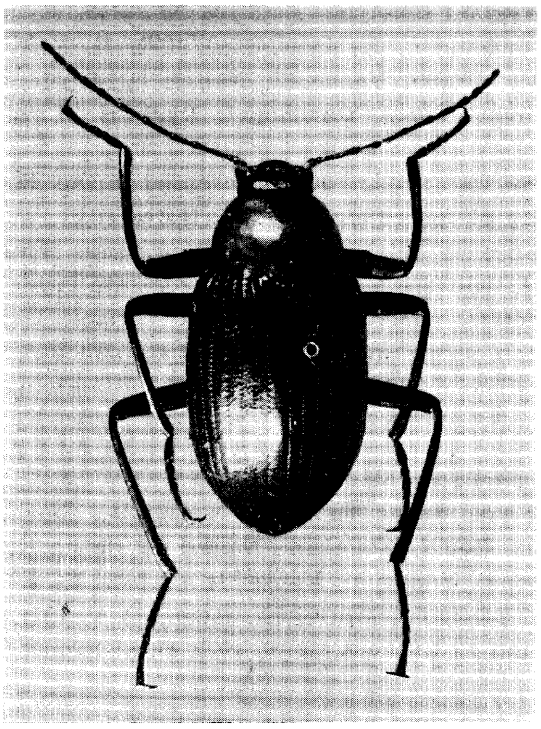

Fig. 4 *Plesiophthalmus punctatus* sp.nov.

Mentum medianly convex, sparsely pubescent. Gena sparsely punctate. Gula smooth, both sides with deep grooves. Prosternum sparsely punctate, pubescent, prosternal process roundly convex between coxal cavities, and then depressed towards apex. Mesosternum roughly carved, with V-shaped groove comparatively shallow. Mesepisterna and mesepimera densely punctate and pubescent, metepisterna sparsely punctate and pubescent. Whole visible abdominal sternites sparsely punctate and pubescent; pubescence comparatively short on median 1/3, and long on each 1/3 of both sides, specially long on terminal segment; apex of terminal segment deeply sinuate in ♂, or rounded in ♀. Front femora with thin femoral projection at about 2/3 from base, middle and hind femora slender, simple. Front tarsi weakly and roundly incurved, apical 2/3 of inside feebly expanded and densely pubescent in ♂, or

simple in ♀. Middle and hind tibiae simple. Front tarsi with dense and brushy hairs, relative length of each segment (base to apex) = 12 : 7 : 6 : 6 : 23. Hind tarsi slender, 1st segment scarsely shorter than remaining segments put together.

Length : 13.5–18.5 mm. Width : 7.0-9.0 mm.

DISTRIBUTION: Yonagunijima I.

TYPE MATERIAL: Holotype ♂ (Type No. 2169, Kyushu Univ.), Sonai–Mt. Urabu, Yonaguni I., Ryukyus, 8. vi. 1974, H. Makihara leg. Paratypes: 2 ♀♀, Mt. Urabu, Yonaguni, Nansei Is., Japan, 15. v. 1974, Col. H. Irie ; 1 ♀ (at light), Sonai, Yonaguni I., Ryukyus, 21. v. 1975, H. Makihara leg.

TYPE DEPOSITORY: Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

This species is related to *P. fuscoaenescens* Fairmaire, 1898 from Ishigakijima I., but is easily separated from the latter through the following characters: punctures on dorsal surface larger and sparser, elytral punctate-striae much deeper, striate-punctures much larger and deeper, interstices more strongly convex, and antennae much shorter.

STRONGYLIINI

†23. **Strongylium cultellatum** Mäklin, 1866

Spec. exam. : **2 exs.,** Sonai, Yonaguni, Nansei Is., Japan, 11. v. 1974, Col. H. Irie ; 1 ex., Sonai, Yonaguni, Nansei Is., Japan, 12. v. 1974, Col. H. Irie ; 1 ex., Sonai, Yonaguni, Nansei Is., Japan, 13. v. 1974, Col. H. Irie; 3 exs., Sonai. Yonaguni, Nansei Is., Japan, 14. v. 1974, Col. H. Irie ; 1 ex., Sonai, Yonaguni I., Ryukyus, 22. v. 1975, H. Makihara leg.

KUROSHIMA I.

AMARYGMINI

†1. **Amarygmus callichromus** Fairmaire, 1897

Spec. exam. : 1 ex., Hori, Kuroshima Is., 15. viii. 1971, K. Harada leg.

HATERUMAJIMA I.

OPATRINI

†1. **Gonocephalum coenosum** Kaszab, 1952

Spec. exam. : **3** exs., Hateruma I., Yaeyama Is., Ryukyus, 21. vi. 1974, H. Makihara leg.

BOLITOPHAGINI

†2. **Bradymerus clathratus** Schaufuss, 1887

Spec. exam. : **1 ex.,** Hateruma I., Yaeyama Is., Ryukyus, 21. vi. 1974. H.

Makihara leg.

ULOMINI

†3. **Uloma excisa excisa** Gebien, 1913
Spec. exam. : 8 exs., Hateruma I., Yaeyama Is., Ryukyus, 21. vi. 1974, H. Makihara leg.

AMARYGMINI

†4. **Amarygmus callichromus** Fairmaire, 1897
Spec. exam. : **10 exs.,** Hateruma I., Yaeyama Is., Ryukyus, 21. vi. 1974, H. Makihara leg.

KITA-DAITOJIMA I.

ULOMINI

†1. **Eutochia lateralis** (Boheman, 1858)
Spec. exam. : 1 ex., N. Daito I., Ryukyus, 10. v. 1965, K. Iha leg.

CNODALONINI

†2. **Obriomaia palpalis palpaloides** Nakane, 1963
Spec. exam. : 1 ex., N. Daito I., Ryukyus, 10. v. 1965, K. Iha leg.

MINAMIIDAITOJIMA I.

DIAPERINI

1. **Pentaphyllus philippinensis** Kaszab, 1956
Spec. exam. : None (recorded by T. Shibata, 1978).

CNODALONINI

2. **Metaclisa hamai** Shibata, 1978
Spec. exam. : None (described by T. Shibata, 1978).

KOHBISHO I.

CNODALONINI

†1. **Oedemutes hirashimai** M. T. Chûjô, **1973**
Spec. exam. : 1 ex., Kobi-sho, Senkaku Isls., 28. v. 1939, T. Masaki leg.

UOTSURIJIMA I.

OPATRINI

1. **Gonocephalum senkakuensis** M. T. Chûjô, 1973
Spec. exam.: Holotype, 16 paratopotypes & paratype.
2. **Gonocephalum coenosum** Kaszab, 1952

Spec. exam.: **1 ex.,** Uotsurijima, Senkaku Isls., 11. xii. 1970, Y. Matsumoto leg.

CNODALONINI

3. **Gnesis senkakuensis** (M. T. Chûjô, 1973)
Spec. exam. : Holotype.

STRONGYLIINI

4. ***Strongylium costatum* sp. nov.**

Elongate, cylindrical; generally shining dark brown, 1st to 4th antennal segments and legs light brown, apical 3/4 of terminal antenna1 segment rather yellow. Head somewhat convex, roughly and strongly punctate; interocular area narrowed at frontal half and then acutely widened backwards, with very shallow depression in widened area, tempola gently narrowed towards neck; preocular area reflexed, roundly narrowed forwards, finely punctate ; clypeus sparsely punctate, basal 1/3 of clypeus nearly flat and then gently deflexed towards apex. Eyes gently expanded outwards, finely facetted.

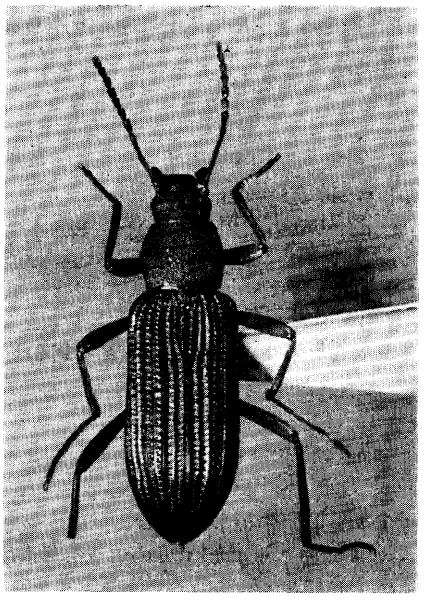

Fig. 5 *Strongylium* ***costatum*** sp. nov.

Pronotum somewhat transverse(5 :6), densely and strongly punctate as in vertex, wholly marginate; front corners rounded, hind corners somewhat angulate ; side margins widest at median part, anterior half verv sliahtlv rounded and posterior half conversely very shallowly

sinuate. Scutellum tongue-shaped, slightly convex, roughly carved.

Elytra strongly convex, punctate-striae scalariform, interstices ridged, with every odd ridges highly convex; shoulder obliquely truncate, sides very feebly dilated towards apex, widest at about 3/5 from base, apical 2/5 gradually tapering towards apex, apex obtuse.

Antennae short, apical 7 segments forming very loose club, relative length of each segment (base to apex) = 5 : 3 : 10 : 10 : 6 : 5 : 5 : 5 : 4.5 : 4.5 : 5, 3rd and 4th slightly thickened forwards, 6th to 8th nearly equal to each other in shape, 9th a little smaller than 8th, penultimate one a little smaller than 9th, terminal one oblong oval. Submentum comparatively long, weakly narrowed forwards; mentum roughly carved, with sparse pubescence, median 1/3 widely ridged. Gula smooth, gular suture invisible. Gena strongly carved.

Prosternum sparsely and strongly punctate, inter-coxal area convex but medianly grooved, prosternal process depressed, roughly carved, slightly projecting backwards. Mesosternum roughly punctate, but very smooth at both sides. Mesepisterna very strongly and sparsely punctate, but very smooth along mesonotum. Metanotum sparsely but very strongly punctate, and somewhat smooth along metepisterna. Visible abdominal sternites sparsely punctate, punctures becoming gradually smaller towards apex, 1st segment strongly depressed between hind coxae, 1st and 2nd segments somewhat smooth along apical margin, terminal segment rounded at apex.

Legs comparatively short, every femur densely rasped; all tibiae short, gently dilated towards apex; front tarsi simple, terminal segment a little longer than remaining 4 segments put together, hind tarsi comparatively long, 1st about twice as long as 2nd, penultimate one 2/3 of 2nd, terminal one 4/5 of 1st.

Length : 14.0 mm. Width : 4.4 mm.

DISTRIBUTION: Uotsurijima I.

TYPE MATERIAL: Molotype ♀ (Type No. 2170, Kyushu Univ.), Uotsurijima I., Senkaku Isls., 28. v. 1979, S. Arai leg.

TYPE DEPOSITORY : Holotype is preserved in the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

This species is closely allied to S. *cultellatum* Mäklin, 1866 from Hongkong, but is easily separated from the latter by the following characters :

S. *cultellatum* Mäklin

Body smaller, somewhat depressed, head densely punctate, gena strongly narrowed towards neck, scutellum nearly triangular, antennae mostly dark brown except for terminal segment, terminal one light brown and distorted oval.

S. costatum sp. nov.

Body larger, cylindrical, head sparsely punctate, gena very gently narrowed towards neck, scutellum tongue-shaped, 1st to 4th antenna1 segments light brown, terminal one rather yellowish brown and oval.

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